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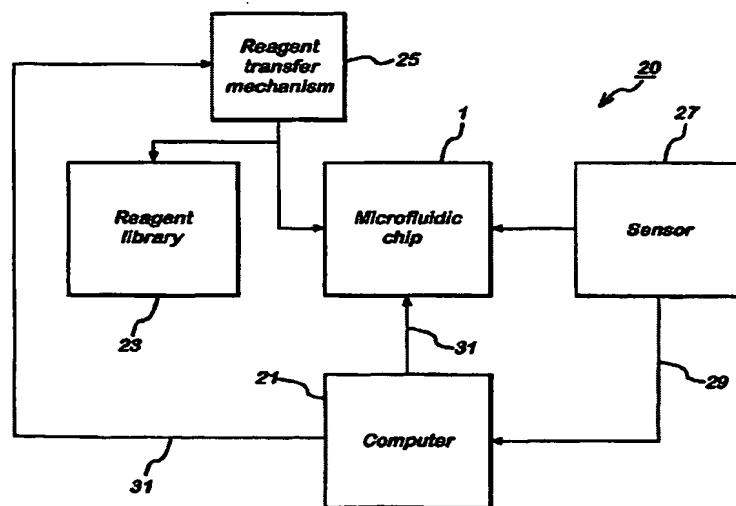
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(54) Title: MICROFLUIDIC SYSTEM



(57) Abstract: A system (20) having a microfluidic channel structure (3;103) in which fluids (A, B; A-C) are able to interact to produce at least one product, and an automated closed-loop control mechanism to autonomously control a condition in, or of, the channel structure, the control mechanism having:- a sensor (27) adapted to produce a sensor signal (29) representative of a predetermined property of the at least product which is dependent on the condition in, or of, the channel structure, means (25) adapted to vary the condition in, or of, the channel structure, and a computer (21) which is adapted to receive the sensor signal and to cause the means to vary the condition in, or of, the channel structure in dependence of the sensor signal.